## ORIGINAL



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1 BEFORE THE ARIZONA CORPORATION CO..... 2 2007 FEB 13 P 2: 46 3 **COMMISSIONERS** 4 AZ CORP COMMISSION JEFF HATCH-MILLER, Chairman DOCUMENT CONTROL WILLIAM A. MUNDELL 5 MIKE GLEASON KRISTIN K. MAYES 6 **GARY PIERCE** 7 DOCKET NO. G-04204A-06-0463 IN THE MATTER OF THE APPLICATION OF 8 UNS GAS, INC. FOR THE ESTABLISHMENT OF JUST AND REASONABLE RATES AND CHARGES DESIGNED TO REALIZE A REASONABLE RATE OF RETURN ON THE 10 FAIR VALUE OF THE PROPERTIES OF UNS **COMMISSION STAFF'S NOTICE** GAS, INC. DEVOTED TO ITS OPERATIONS 11 OF ERRATA FILING THROUGHOUT THE STATE OF ARIZONA CORPORATION COMMISSION. 12 13 IN THE MATTER OF THE APPLICATION OF DOCKET NO. G-04204A-06-0013 UNS GAS, INC. TO REVIEW AND REVISE 14 ITS PURCHASED GAS ADJUSTOR. 15 IN THE MATTER OF THE INQUIRY INTO DOCKET NO. G-04204A-05-0831 16 THE PRUDENCE OF THE GAS PROCUREMENT PRACTICES OF UNS GAS, 17 INC. 18 19 On February 9, 2007, the Arizona Corporation Commission ("Commission") Staff filed its 20 direct testimony in the above-captioned matters. Through this Errata Filing, Staff desires to correct 21 several errors appearing in the testimony and schedules of Mr. David C. Parcell. First, Staff files a 22 revised Schedule 2 which corrects for several omissions in the original schedules. 23 following corrections should be made to Mr. Parcell's written testimony: 24 1. Page 15, line 9: delete "Smith"; insert "Ruback." 25 Arizona Corporation Commission Page 29, line 9: delete "4.84"; insert "4.83." DOCKETED 26 FEB 13 2007 27

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1 Page 33, line 4: delete "11.7"; insert "11.5." RESPECTFULLY SUBMITTED this 13<sup>th</sup> day of February 2007. 2 3 4 5 6 7 8 9 10 11 Original and Seventeen (17) copies of the foregoing filed this 13<sup>th</sup> day of February 2007 with: 12 13 Docket Control Arizona Corporation Commission 14 1200 West Washington Street Phoenix, Arizona 85007 15 Copies of the foregoing e-mailed/mailed this 13<sup>th</sup> day of February 2007 to: 17 Michael W. Patten 18 Roshka DeWulf & Patten PLC One Arizona Center 19 400 East Van Buren Street Suite 800 20 Phoenix, Arizona 85004 21 Scott S. Wakefield **RUCO** 22 1110 West Washington Street Suite 220 23 Phoenix, Arizona 85007 24 Raymond S. Heyman Michelle Livengood 25 UniSource Energy Services One South Church Avenue 26 Suite 1820 Tucson, Arizona 85701 27

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| 1 2 | Copies of the foregoing mailed this 13 <sup>th</sup> day of February 2007 to:  |
|-----|--|
| 3   | Cynthia Zwick, Executive Director<br>ACAA<br>2700 North 3 <sup>rd</sup> Street, Suite 3040   |
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| 17  | [1] 경기 왕에 작용하는 경기 경기 등 등 등 경기를 받는<br>[2] 공기 기계 기계 등 기계 등 학교 기계 기계 등 기계 등   |
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## **ECONOMIC INDICATORS**

| YEAR                 | REAL<br>GDP<br>GROWTH | IND<br>PROD<br>GROWTH | UNEMP<br>RATE | СРІ          | PPI           |  |  |  |  |
|----------------------|-----------------------|-----------------------|---------------|--------------|---------------|--|--|--|--|
| 1975 - 1982 Cycle    |                       |                       |               |              |               |  |  |  |  |
| 1975                 | -1.1%                 | -8.9%                 | 8.5%          | 7.0%         | 6.6%          |  |  |  |  |
| 1976                 | 5.4%                  | 10.8%                 | 7.7%          | 4.8%         | 3.7%          |  |  |  |  |
| 1977                 | 5.5%                  | 5.9%                  | 7.0%          | 6.8%         | 6.9%          |  |  |  |  |
| 1978                 | 5.0%                  | 5.7%                  | 6.0%          | 9.0%         | 9.2%          |  |  |  |  |
| 1979                 | 2.8%                  | 4.4%                  | 5.8%          | 13.3%        | 12.8%         |  |  |  |  |
| 1980                 | -0.2%                 | -1.9%                 | 7.0%          | 12.4%        | 11.8%         |  |  |  |  |
| 1981                 | 1.8%                  | 1.9%                  | 7.5%          | 8.9%         | 7.1%          |  |  |  |  |
| 1982                 | -2.1%                 | -4.4%                 | 9.5%          | 3.8%         | 3.6%          |  |  |  |  |
| 1983 - 1991 Cycle    |                       |                       |               |              |               |  |  |  |  |
| 1983                 | 4.0%                  | 3.7%                  | 9.5%          | 3.8%         | 0.6%          |  |  |  |  |
| 1984                 | 6.8%                  | 9.3%                  | 7.5%          | 3.9%         | 1.7%          |  |  |  |  |
| 1985                 | 3.7%                  | 1.7%                  | 7.2%          | 3.8%         | 1.8%          |  |  |  |  |
| 1986                 | 3.1%                  | 0.9%                  | 7.0%          | 1.1%         | -2.3%         |  |  |  |  |
| 1987                 | 2.9%                  | 4.9%                  | 6.2%          | 4.4%         | 2.2%          |  |  |  |  |
| 1988                 | 3.8%                  | 4.5%                  | 5.5%          | 4.4%         | 4.0%          |  |  |  |  |
| 1989                 | 3.5%                  | 1.8%                  | 5.3%          | 4.6%         | 4.9%          |  |  |  |  |
| 1990                 | 1.8%                  | -0.2%                 | 5.6%          | 6.1%         | 5.7%          |  |  |  |  |
| 1991                 | -0.5%                 | -2.0%                 | 6.8%          | 3.1%         | -0.1%         |  |  |  |  |
|                      |                       | 1992                  | - 2001 Cycle  |              |               |  |  |  |  |
| 1992                 | 3.0%                  | 3.1%                  | 7.5%          | 2.9%         | 1.6%          |  |  |  |  |
| 1993                 | 2.7%                  | 3.3%                  | 6.9%          | 2.7%         | 0.2%          |  |  |  |  |
| 1994                 | 4.0%                  | 5.4%                  | 6.1%          | 2.7%         | 1.7%          |  |  |  |  |
| 1995                 | 2.5%                  | 4.8%                  | 5.6%          | 2.5%         | 2.3%          |  |  |  |  |
| 1996                 | 3.7%                  | 4.3%                  | 5.4%          | 3.3%         | 2.8%          |  |  |  |  |
| 1997                 | 4.5%                  | 7.2%                  | 4.9%          | 1.7%         | -1.2%         |  |  |  |  |
| 1998                 | 4.2%                  | 6.1%                  | 4.5%          | 1.6%         | 0.0%          |  |  |  |  |
| 1999                 | 4.5%                  | 4.7%                  | 4.2%          | 2.7%         | 2.9%          |  |  |  |  |
| 2000                 | 3.7%                  | 4.5%                  | 4.0%          | 3.4%         | 3.6%          |  |  |  |  |
| 2001                 | 0.8%                  | -3.5%                 | 4.7%          | 1.6%         | -1.6%         |  |  |  |  |
|                      |                       | Cui                   | rrent Cycle   |              |               |  |  |  |  |
| 2002                 | 1.6%                  | 0.0%                  | 5.8%          | 2.4%         | 1.2%          |  |  |  |  |
| 2003                 | 2.5%                  | 1.1%                  | 6.0%          | 1.9%         | 4.0%          |  |  |  |  |
| 2004                 | 3.9%                  | 2.5%                  | 5.5%          | 3.3%         | 4.2%          |  |  |  |  |
| 2005                 | 3.2%                  | 3.2%                  | 5.1%          | 3.4%         | 5.4%          |  |  |  |  |
| 2002                 |                       |                       |               |              |               |  |  |  |  |
| 1st Qtr.             | 2.7%                  | -3.8%                 | 5.6%          | 2.8%         | 4.4%          |  |  |  |  |
| 2nd Qtr.             | 2.2%                  | -1.2%                 | 5.9%          | 0.9%         | -2.0%         |  |  |  |  |
| 3rd Qtr.             | 2.4%                  | 0.8%                  | 5.8%          | 2.4%         | 1.2%          |  |  |  |  |
| 4th Qtr.             | 0.2%                  | 1.4%                  | 5.9%          | 1.6%         | 0.4%          |  |  |  |  |
| 2003                 | 1 20/                 | 1 10/                 | 5.8%          | 1 80/        | 5 60/         |  |  |  |  |
| 1st Qtr.             | 1.2%                  | 1.1%                  | 5.8%          | 4.8%         | 5.6%          |  |  |  |  |
| 2nd Qtr.<br>3rd Qtr. | 3.5%<br>7.5%          | -0.9%<br>-0.9%        | 6.2%<br>6.1%  | 0.0%<br>3.2% | -0.5%<br>3.2% |  |  |  |  |
| 4th Qtr.             | 2.7%                  | 1.5%                  | 5.9%          | -0.3%        | 2.8%          |  |  |  |  |
| 2004                 |                       |                       |               |              |               |  |  |  |  |
| 1st Qtr.             | 3.9%                  | 2.8%                  | 5.6%          | 5.2%         | 5.2%          |  |  |  |  |
| 2nd Qtr.             | 4.0%                  | 4.9%                  | 5.6%          | 4.4%         | 4.4%          |  |  |  |  |
| 3rd Qtr.             | 3.1%                  | 4.6%                  | 5.4%          | 0.8%         | 0.8%          |  |  |  |  |
| 4th Qtr.             | 2.6%                  | 4.3%                  | 5.4%          | 3.6%         | 7.2%          |  |  |  |  |
| 2005                 |                       |                       |               |              |               |  |  |  |  |
| 1st Qtr.             | 3.4%                  | 3.8%                  | 5.3%          | 4.4%         | 5.6%          |  |  |  |  |
| 2nd Qtr.             | 3.3%                  | 3.0%                  | 5.1%          | 1.6%         | -0.4%         |  |  |  |  |
| 3rd Qtr.             | 4.2%                  | 2.7%                  | 5.0%          | 8.8%         | 14.0%         |  |  |  |  |
| 4th Qtr.             | 1.8%                  | 3.1%                  | 4.9%          | -2.0%        | 4.0%          |  |  |  |  |
| 2006                 |                       |                       |               |              |               |  |  |  |  |
| 1st Qtr.             | 5.6%                  | 3.4%                  | 4.7%          | 4.8%         | -0.2%         |  |  |  |  |
|                      | 2.6%                  | 4.5%                  | 4.6%          | 4.8%         | E 60/         |  |  |  |  |
| 2nd Qtr.             | 2.076                 | 4.576                 | 4.076         | 4.070        | 5.6%          |  |  |  |  |

Source: Council of Economic Advisors, Economic Indicators, various issues.

## **INTEREST RATES**

| YEAR         | PRIME<br>RATE                    | US TREAS<br>T BILLS<br>3 MONTH | US TREAS<br>T BONDS<br>10 YEAR | UTILITY<br>BONDS<br>Aaa | UTILITY<br>BONDS<br>Aa | UTILITY<br>BONDS<br>A | UTILITY<br>BONDS<br>Baa |
|--------------|----------------------------------|--------------------------------|--------------------------------|-------------------------|------------------------|-----------------------|-------------------------|
| - 1.         |                                  |                                | 1975 - 198                     |                         | 1 41 1,4               |                       |                         |
| 1975         | 7.86%                            | 5.84%                          | 7.99%                          | 9.03%                   | 9.44%                  | 10.09%                | 10.96%                  |
| 1976         | 6.84%                            | 4.99%                          | 7.61%                          | 8.63%                   | 8.92%                  | 9.29%                 | 9.82%                   |
| 1977<br>1978 | 6.83%<br>9.06%                   | 5.27%<br>7.22%                 | 7.42%<br>8.41%                 | 8.19%<br>8.87%          | 8.43%<br>9.10%         | 8.61%<br>9.29%        | 9.06%<br>9.62%          |
| 1979         | 12.67%                           | 10.04%                         | 9.44%                          | 9.86%                   | 10.22%                 | 10.49%                | 10.96%                  |
| 1980         | 15.27%                           | 11.51%                         | 11.46%                         | 12.30%                  | 13.00%                 | 13.34%                | 13.95%                  |
| 1981         | 18.89%                           | 14.03%                         | 13.93%                         | 14.64%                  | 15.30%                 | 15.95%                | 16.60%                  |
| 1982         | 14.86%                           | 10.69%                         | 13.00%                         | 14.22%                  | 14.79%                 | 15.86%                | 16.45%                  |
|              |                                  |                                | 1983 - 199                     |                         |                        |                       |                         |
| 1983<br>1984 | 10.79%<br>12.04%                 | 8.63%<br>9.58%                 | 11.10%<br>12.44%               | 12.52%<br>12.72%        | 12.83%<br>13.66%       | 13.66%<br>14.03%      | 14.20%<br>14.53%        |
| 1985         | 9.93%                            | 7.48%                          | 10.62%                         | 11.68%                  | 12.06%                 | 12.47%                | 12.96%                  |
| 1986<br>1987 | 8.33%<br>8.21%                   | 5.98%<br>5.82%                 | 7.68%<br>8.39%                 | 8.92%<br>9.52%          | 9.30%<br>9.77%         | 9.58%<br>10.10%       | 10.00%<br>10.53%        |
| 1988         | 9.32%                            | 6.69%                          | 8.85%                          | 10.05%                  | 10.26%                 | 10.10%                | 11.00%                  |
| 1989         | 10.87%                           | 8.12%                          | 8.49%                          | 9.32%                   | 9.56%                  | 9.77%                 | 9.97%                   |
| 1990<br>1991 | 10.01%<br>8.46%                  | 7.51%<br>5.42%                 | 8.55%<br>7.86%                 | 9.45%<br>8.85%          | 9.65%<br>9.09%         | 9.86%<br>9.36%        | 10.06%<br>9.55%         |
|              |                                  |                                | 1992 - 200                     |                         |                        |                       |                         |
| 1992         | 6.25%                            | 3.45%                          | 7.01%                          | 8.19%                   | 8.55%                  | 8.69%                 | 8.86%                   |
| 1993         | 6.00%                            | 3.02%                          | 5.87%                          | 7.29%                   | 7.44%                  | 7.59%                 | 7.91%                   |
| 1994         | 7.15%                            | 4.29%<br>5.51%                 | 7.09%                          | 8.07%<br>7.68%          | 8.21%                  | 8.31%                 | 8.63%                   |
| 1995<br>1996 | 8.83%<br>8.27%                   | 5.51%<br>5.02%                 | 6.57%<br>6.44%                 | 7.68%<br>7.48%          | 7.77%<br>7.57%         | 7.89%<br>7.75%        | 8.29%<br>8.16%          |
| 1997         | 8.44%                            | 5.07%                          | 6.35%                          | 7.43%                   | 7.54%                  | 7.60%                 | 7.95%                   |
| 1998         | 8.35%                            | 4.81%                          | 5.26%                          | 6.77%                   | 6.91%                  | 7.04%                 | 7.26%                   |
| 1999         | 8.00%                            | 4.66%                          | 5.65%                          | 7.21%                   | 7.51%                  | 7.62%                 | 7.88%                   |
| 2000<br>2001 | 9.23%<br>6.91%                   | 5.85%<br>3.45%                 | 6.03%<br>5.02%                 | 7.88%<br>7.47%          | 8.06%<br>7.59%         | 8.24%<br>7.78%        | 8.36%<br>8.02%          |
|              |                                  |                                | Current C                      | ycle                    |                        |                       |                         |
| 2002         | 4.67%                            | 1.62%                          | 4.61%                          |                         | 7.19%                  | 7.37%                 | 8.02%                   |
| 2003<br>2004 | 4.12%<br>4.34%                   | 1.02%<br>1.38%                 | 4.01%<br>4.27%                 |                         | 6.40%<br>6.04%         | 6.58%<br>6.16%        | 6.84%<br>6.40%          |
| 2004         | 6.19%                            | 3.16%                          | 4.27%                          |                         | 5.44%                  | 5.65%                 | 5.93%                   |
| 2003         |                                  |                                |                                |                         |                        |                       |                         |
| Jan<br>Feb   | 4.25%<br>4.25%                   | 1.17%<br>1.16%                 | 4.05%<br>3.90%                 |                         | 6.87%<br>6.66%         | 7.06%<br>6.93%        | 7.47%<br>7.17%          |
| Mar          | 4.25%                            | 1.13%                          | 3.81%                          |                         | 6.56%                  | 6.79%                 | 7.05%                   |
| Apr          | 4.25%                            | 1.14%                          | 3.96%                          |                         | 6.47%                  | 6.64%                 | 6,94%                   |
| May          | 4.25%                            | 1.08%                          | 3.57%                          |                         | 6.20%                  | 6.36%                 | 6.47%                   |
| June         | 4.00%                            | 0.95%                          | 3.33%                          |                         | 6.12%                  | 6.21%                 | 6.30%                   |
| July<br>Aug  | 4.00%<br>4.00%                   | 0.90%<br>0.96%                 | 3.98%<br>4.45%                 |                         | 6.37%<br>6.48%         | 6.57%<br>6.78%        | 6.67%<br>7.08%          |
| Sept         | 4.00%                            | 0.95%                          | 4.27%                          |                         | 6.30%                  | 6.56%                 | 6.87%                   |
| Oct          | 4.00%                            | 0.93%                          | 4.29%                          |                         | 6.28%                  | 6.43%                 | 6.79%                   |
| Nov<br>Dec   | 4.00%<br>4.00%                   | 0.94%<br>0.90%                 | 4.30%<br>4.27%                 |                         | 6.26%<br>6.18%         | 6.37%<br>6.27%        | 6.69%<br>6.61%          |
| 2004         |                                  |                                |                                |                         |                        |                       |                         |
| Jan<br>Feb   | 4.00%                            | 0.89%<br>0.92%                 | 4.15%<br>4.08%                 |                         | 6.06%<br>6.10%         | 6.15%<br>6.15%        | 6.47%<br>6.28%          |
| Mar          | 4.00%                            | 0.94%                          | 3.83%                          |                         | 5.93%                  | 5.97%                 | 6.12%                   |
| Apr          | 4.00%                            | 0.94%                          | 4.35%                          |                         | 6.33%                  | 6.35%                 | 6.46%                   |
| May          | 4.00%                            | 1.04%                          | 4.72%                          |                         | 6.66%                  | 6.62%                 | 6.75%                   |
| June<br>July | 4.00%<br>4.25%                   | 1.27%<br>1.35%                 | 4.73%<br>4.50%                 |                         | 6.30%<br>6.09%         | 6.46%<br>6.27%        | 6.84%<br>6.67%          |
| Aug          | 4.50%                            | 1.48%                          | 4.28%                          |                         | 5.95%                  | 6.14%                 | 6.45%                   |
| Sept         | 4.75%                            | 1.65%                          | 4.13%                          |                         | 5.79%                  | 5,98%                 | 6.27%                   |
| Oct          | 4.75%<br>5.00%                   | 1.75%                          | 4.10%<br>4.19%                 |                         | 5.74%                  | 5.94%                 | 6.17%<br>6.16%          |
| Nov<br>Dec   | 5.00%<br>5.25%                   | 2.06%<br>2.20%                 | 4.19%<br>4.23%                 |                         | 5.79%<br>5.78%         | 5.97%<br>5.92%        | 6.10%                   |
| 2005         | 5.25%                            | 2 228                          | 4 9304                         |                         | 5 600/                 | E 700/                | E OFM                   |
| Jan<br>Feb   | 5.25%                            | 2.32%<br>2.53%                 | 4.22%<br>4.17%                 |                         | 5.68%<br>5.55%         | 5.78%<br>5.61%        | 5.95%<br>5.76%          |
| Mar          | 5.75%                            | 2.75%                          | 4.50%                          |                         | 5.76%                  | 5.83%                 | 6.01%                   |
| Apr          | 5.75%                            | 2.79%                          | 4.34%                          |                         | 5.56%                  | 5.64%                 | 5.95%                   |
| May          | 6.00%                            | 2.86%                          | 4.14%                          |                         | 5.39%                  | 5.53%                 | 5.88%                   |
| June<br>July | 6.25%<br>6.25%                   | 2.99%<br>3.22%                 | 4.00%<br>4.18%                 |                         | 5.05%<br>5.18%         | 5.40%<br>5.51%        | 5.70%<br>5.81%          |
| Aug          | 6.50%                            | 3.45%                          | 4.26%                          |                         | 5.23%                  | 5.50%                 | 5.80%                   |
| Sept         | 6.75%                            | 3.47%                          | 4.20%                          |                         | 5.27%                  | 5.52%                 | 5.83%                   |
| Oct          | 6.75%                            | 3.70%                          | 4.46%                          |                         | 5.50%                  | 5.79%                 | 6.08%                   |
| Nov<br>Dec   | 7.00%<br>7.25%                   | 3.90%<br>3.89%                 | 4.54%<br>4.47%                 |                         | 5.59%<br>5.55%         | 5.88%<br>5.80%        | 6.19%<br>6.14%          |
| 2006         |                                  |                                |                                |                         |                        |                       |                         |
| Jan          | 7.50%                            | 4.20%                          | 4.42%                          |                         | 5.50%                  | 5.75%                 | 6.06%                   |
| Feb<br>Mar   | 7.50%<br>7.75%                   | 4.41%<br>4.51%                 | 4.57%<br>4.72%                 |                         | 5.55%<br>5.71%         | 5.82%<br>5.98%        | 6.11%<br>6.26%          |
| Apr          | 7.75%                            | 4.59%                          | 4.99%                          |                         | 6.02%                  | 6.29%                 | 6.54%                   |
| May          | 8.00%                            | 4.72%                          | 5.11%                          | 급속 설탕이                  | 6.16%                  | 6.42%                 | 6.59%                   |
| F 2 13       | 8.25%                            | 4.79%                          | 5.11%                          |                         | 6.16%                  | 6.40%                 | 6.61%                   |
| June         | 8.25%                            | 4.96%                          | 5.09%                          |                         | 6.13%<br>5.97%         | 6.37%<br>6.20%        | 6.61%                   |
| July         | g 250/                           |                                |                                |                         |                        |                       |                         |
| July<br>Aug  | 8.25%<br>8.25%                   | 4.98%<br>4.82%                 | 4.88%<br>4.72%                 |                         |                        |                       |                         |
| July         | 8.25%<br>8.25%<br>8.25%<br>8.25% | 4.98%<br>4.82%<br>4.89%        | 4.72%<br>4.73%<br>4.60%        |                         | 5.81%<br>5.80%         | 6.00%<br>5.98%        | 6.26%<br>6.24%          |

## STOCK PRICE INDICATORS

|                  |                  | <u> </u>            |                        |                | · · · · · · · · · · · · · · · · · · · |
|------------------|------------------|---------------------|------------------------|----------------|---------------------------------------|
| YEAR             | S&P<br>Composite | Nasdaq<br>Composite | DJIA                   | S&P<br>D/P     | S&P<br>E/P                            |
|                  |                  | 1975 - 198          | 2 Cycle                |                |                                       |
| 1975             |                  |                     | 802.49                 | 4.31%          | 9.15%                                 |
| 1976             |                  |                     | 974.92                 | 3.77%          | 8.90%                                 |
| 1977             |                  |                     | 894.63                 | 4.62%          | 10.79%                                |
| 1978             |                  |                     | 820.23                 | 5.28%          | 12.03%                                |
| 1979             |                  |                     | 844.40                 | 5.47%          | 13.46%                                |
| 1980             |                  |                     | 891.41                 | 5.26%          | 12.66%                                |
| 1981             |                  |                     | 932.92                 | 5.20%          | 11.96%                                |
| 1982             |                  |                     | 884.36                 | 5.81%          | 11.60%                                |
|                  |                  | 1983 - 199          | 1 Cycle                |                |                                       |
| 1983             |                  |                     | 1,190.34               | 4.40%          | 8.03%                                 |
| 1984             |                  |                     | 1,178.48               | 4.64%          | 10.02%                                |
| 1985             |                  |                     | 1,328.23               | 4.25%          | 8.12%                                 |
| 1986             |                  |                     | 1,792.76               | 3.49%          | 6.09%                                 |
| 1987             |                  |                     | 2,275.99               | 3.08%          | 5.48%                                 |
| 1988             |                  |                     | 2,060.82               | 3.64%          | 8.01%                                 |
| 1989             | 322.84           |                     | 2,508.91               | 3.45%          | 7.41%                                 |
| 1990             | 334.59           |                     | 2,678.94               | 3.61%          | 6.47%                                 |
| 1991             | 376.18           | 491.69              | 2,929.33               | 3.24%          | 4.79%                                 |
|                  |                  | 1992 - 200          | 1 Cycle                |                |                                       |
| 1992             | 415.74           | 599.26              | 3,284.29               | 2.99%          | 4.22%                                 |
| 1993             | 451.21           | 715.16              | 3,522.06               | 2.78%          | 4.46%                                 |
| 1994             | 460.42           | 751.65              | 3,793.77               | 2.82%          | 5.83%                                 |
| 1995             | 541.72           | 925.19              | 4,493.76               | 2.56%          | 6.09%                                 |
| 1996             | 670.50           | 1,164.96            | 5,742.89               | 2.19%          | 5.24%                                 |
| 1997             | 873.43           | 1,469.49            | 7,441.15               | 1.77%          | 4.57%                                 |
| 1998             | 1,085.50         | 1,794.91            | 8,625.52               | 1.49%          | 3.46%                                 |
| 1999             | 1,327.33         | 2,728.15            | 10,464.88              | 1.25%          | 3.17%                                 |
| 2000             | 1,427.22         | 3,783.67            | 10,734.90              | 1.15%          | 3.63%                                 |
| 2001             | 1,194.18         | 2,035.00            | 10,189.13              | 1.32%          | 2.95%                                 |
|                  |                  | Current             | Cycle                  |                |                                       |
| 2002             | 993.94           | 1,539.73            | 9,226.43               | 1.61%          | 2.92%                                 |
| 2003             | 965.23           | 1,647.17            | 8,993.59               | 1.77%          | 3.84%                                 |
| 2004             | 1,130.65         | 1,986.53            | 10,317.39              | 1.72%          | 4.89%                                 |
| 2005             | 1,207.23         | 2,099.32            | 10,547.67              | 1.83%          | 5.36%                                 |
| 2002<br>1st Qtr. | 1,131.56         | 1,879.85            | 10,105.27              | 1.39%          | 2.15%                                 |
| 2nd Qtr.         | 1,068.45         | 1,641.53            | 9,912.70               | 1.49%          | 2.70%                                 |
| 3rd Qtr.         | 894.65           | 1,308.17            | 8,487.59               | 1.76%          | 3.68%                                 |
| 4th Qtr.         | 887.91           | 1,346.07            | 8,400.17               | 1.79%          | 3.14%                                 |
| 2003             |                  |                     |                        |                |                                       |
| 1st Qtr.         | 860.03           | 1,350.44            | 8,122.83               | 1.89%          | 3.57%                                 |
| 2nd Qtr.         | 938.00           | 1,521.92            | 8,684.52               | 1.75%          | 3.55%                                 |
| 3rd Qtr.         | 1,000.50         | 1,765.96            | 9,310.57               | 1.74%          | 3.87%                                 |
| 4th Qtr.         | 1,056.42         | 1,934.71            | 9,856.44               | 1.69%          | 4.38%                                 |
| 2004<br>1st Qtr. | 1,133.29         | 2,041.95            | 10,488.43              | 1.64%          | 4.62%                                 |
| 2nd Qtr.         | 1,122.87         | 1,984.13            | 10,289.04              | 1.71%          | 4.92%                                 |
| 3rd Qtr.         | 1,104.15         | 1,872.90            |                        |                |                                       |
| 4th Qtr.         | 1,162.07         | 2,050.22            | 10,129.85<br>10,362.25 | 1.79%<br>1.75% | 5.18%<br>4.83%                        |
| 2005             |                  |                     |                        |                |                                       |
| 1st Qtr.         | 1,191.98         | 2,056.01            | 10,648.48              | 1.77%          | 5.11%                                 |
| 2nd Qtr.         | 1,181.65         | 2,012.24            | 10,382.35              | 1.85%          | 5.32%                                 |
| 3rd Qtr.         | 1,224.14         | 2,149.20            | 10,544.06              | 1.83%          | 5.42%                                 |
| 4th Qtr.         | 1,230.47         | 2,178.67            | 10,615.78              | 1.86%          | 5.60%                                 |
| 2006<br>1st Qtr. | 1,283.04         | 2,287.97            | 10,996.04              | 1.85%          | 5.61%                                 |
| 2nd Qtr.         | 1,281.77         | 2,240.46            | 11,188.84              | 1.90%          | 5.88%                                 |
| 3rd Qtr.         | 1,288.40         | 2,141.97            | 11,584.69              | 1.91%          | 일본 경기사                                |
|                  |                  |                     |                        |                |                                       |

Source: Council of Economic Advisors, Economic Indicators, various issues.